



UNITED STATES PATENT AND TRADEMARK OFFICE

19
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/629,266

07/29/2003

Yeyan Zhang

U0158P OS/OAPT
(1010-93)

8587

23657 7590 03/22/2006

COGNIS CORPORATION
PATENT DEPARTMENT
300 BROOKSIDE AVENUE
AMBLER, PA 19002

EXAMINER

MEAH, MOHAMMAD Y

ART UNIT

PAPER NUMBER

1652

DATE MAILED: 03/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/629,266

Applicant(s)

ZHANG ET AL.

Examiner

Mohammad Meah

Art Unit

1652

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☒ Claim(s) 1-27 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

The claims 1-27 are pending in the instant office action.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I. Claims 1, 4-6, 17-19, 21-25 and 27, drawn to method of converting a fatty acid to its corresponding dicarboxylic acid using a yeast transformed with fusion gene comprising a POX4 promoter, classified in class 435, subclass 145.

Group II. Claims 2-3 and 7-16, drawn to method of transforming a yeast cell and cells produced from said methods, classified in class 435, subclass 471.

Group III. Claims 17, 19-23 and 25-27, drawn to method of converting a fatty acid to its corresponding dicarboxylic acid using a yeast transformed with fusion gene comprising a Candida catalase promoter, classified in class 435, subclass 145.

Group IV. Claims 17, 19-23 and 25-27, drawn to method of converting a fatty acid to its corresponding dicarboxylic acid using a yeast transformed with fusion gene comprising a Candida citrate synthase promoter, classified in class 435, subclass 145.

Group V. Claims 17, 19-23 and 25-27, drawn to method of converting a fatty acid to its corresponding dicarboxylic acid using a yeast transformed with fusion gene comprising a Candida 3-ketoacyl-CoA thiolase promoter, classified in class 435, subclass 145.

Group VI. Claims 17, 19-23 and 25-27, drawn to method of converting a fatty acid to its corresponding dicarboxylic acid using a yeast transformed with fusion gene comprising a Candida 0-acetylhomoserine sulphydrolase promoter, classified in class 435, subclass 145.

Group VII. Claims 17, 19-23 and 25-27, drawn to method of converting a fatty acid to its corresponding dicarboxylic acid using a yeast transformed with fusion gene comprising a *Candida* protease promoter, classified in class 435, subclass 145.

Group VIII. Claims 17, 19-23 and 25-27, drawn to method of converting a fatty acid to its corresponding dicarboxylic acid using a yeast transformed with fusion gene comprising a *Candida* carnitine 0-acetyltransferase promoter, classified in class 435, subclass 145.

Group IX. Claims 17, 19-23 and 25-27, drawn to method of converting a fatty acid to its corresponding dicarboxylic acid using a yeast transformed with fusion gene comprising a *Candida* hydratase-dehydrogenase promoter, classified in class 435, subclass 145.

Group X. Claims 17, 19-23 and 25-27, drawn to method of converting a fatty acid to its corresponding dicarboxylic acid using a yeast transformed with fusion gene comprising a *Candida* epimerase promoter, classified in class 435, subclass 145.

The inventions are distinct, each from the other because of the following reasons:

Inventions of groups I, III, IV---X are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case each methods of groups I to X involve different steps involving different products.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Art Unit: 1652

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).


Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Meah whose telephone number is 571-272-1261. The examiner can normally be reached on 8:30-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mohammad Younus Meah, PhD
Examiner, Art Unit 1652
Recombinant Enzymes, 3C31 Remsen Bld
400 Dulany Street, Alexandria, VA 22314
Telephone: 517-272-1261


REBECCA E. PRO CUTY
PRIMARY EXAMINER
GROUP 1829
1600